

ABSTRACT

A method for removing fluorine gas from a selected environment comprises contacting the fluorine gas with water to generate a solution of hydrofluoric acid and contacting the solution of hydrofluoric acid with an ion exchange resin having an active state operative to exchange selected ions
5 therein for fluoride ions in the solution. The apparatus (200) may include a dual resin setup (222, 223) such that one of the ion-exchange resin can be in the service cycle while the other of the ion-exchange resins undergoes the regeneration and rinse/refill cycles.